

Composite Film for Sealing with Barrier Layer

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a National Phase Application of International Application No. PCT/2003/008017, filed on July 23, 2003, which claims the benefit of and priority to German patent application no. DE 102 35 583.5, filed on August 3, 2002, which is owned by the assignee of the instant application. The disclosure of each of the above application is incorporated herein by reference in their entirety.

BACKGROUND OF THE INVENTION

[0002] The invention relates to a composite film for sealing with a substrate, a primer layer and at least one extruded functional layer.

[0003] As a rule, sealing foils whose substrates comprise for example aluminium, plastic or paper have a primer layer as an adherent surface for extrusion coatings. The functional layers applied by extrusion are for example weld layers, seal layers or peel layers.

[0004] In particular, if cross-linking two-component primers are used as an adherent surface for extrusion coatings, there is a danger of undesirable migration occurring between the extrusion coatings and the primer layer. Components of the primer which can migrate, which components can occur as long as the primer is not yet cross-linked or has not reacted, can cause interference with the properties of the functional layers (weld, seal or peel properties) or interference with additive functions such as for example sliding properties or antistatic properties. Furthermore, interference with, or changes in, the primer curing and/or primer properties or interfacial bonding may occur. Such migration occurs in particular if functionalized polymers, copolymers and/or blends with low cristallinity, incompatible components and/or greater solubility are used for migrateable components. As a rule, these polymers have a greater tendency to migrate than non-modified polymers, as is for example documented by the difference in lubricant